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[An on-line signature verification system using Hidden Markov Model in polar space](#)

HS Yoo, JY Lee, HS Yoo / 2002 - computer.org

... This coordinate system need to **normalization of signature stroke size and angle variance** always.

To reduce **normalization** error and computing time, we proposed the polar coordinate system ...

Signature verification is one of the most important research areas in the field of **person** ...

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[Identity authentication using improved online signature verification method](#)

psu.edu [PDF]

A Khachaturov, B Yankelevich - Pattern Recognition Letters, 2006 - Elsevier

... which are used to determine **user dependent** parameters characterizing the **variance** within the ... the benefits of not resampling significantly outweigh the disadvantage of not **normalizing** for speed, as ... trajectory: x-y coordinates relative to the first point of **signature** trajectory, the x ...

Cited by 11 - Related articles - All 12 versions

[Signature verification using global and grid features](#)

Y Q, BR Hunt - Pattern Recognition, 1994 - Elsevier

... Because distortions due to **size-normalization** tend to be similar to signatures of the same **person**, it was assumed that these ... This ratio provides an estimation of the discriminating power of each scale for **signature** verification. ... Let m_k and s_k denote the mean and **variance** of d_{ik} ...

Cited by 33 - Related articles - All 2 versions

[A comparative study on the consistency of features in on-line signature verification](#)

psu.edu [PDF]

H Leu, V Govindaraju - Pattern Recognition Letters, 2005 - Elsevier

... **variance** View the MathML source is an indicator of the consistency of feature i . Inter-class **distance variance** σ_{view} ... Given a test **signature** S , the distances between feature i of S and the feature i of the five ... The maximum **normalized** distance was returned as the similarity output. ...

Cited by 31 - Related articles - All 13 versions

[Gait recognition from time-normalized joint-angle trajectories in the walking plane](#)

psu.edu [PDF]

R Tanawongsuwan, A Bobick - 2001 - computer.org

... for the number of footsteps and time, **normalize** the trajectories by a **variance** compensated time ... **statistics** that researchers are investigating and hope to use as a **signature** to recognize ... conversion to sagittal-plane projected joint angles, and the temporal **normalization** that results ...

Cited by 13 - Related articles - All 2 versions

[On-line signature recognition based on VO-DTW](#)

M Fountoukian, M Fountoukian - Pattern Recognition, 2007 - Elsevier

... When using dynamic features, some kind of **length normalization** must be done, because different ...

View the MathML source and View the MathML source: (a) Euclidean **distance**: View the ... tool for signal compression, we propose the following strategy for **signature** recognition: ...

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[An efficient low cost approach for on-line signature recognition based on length normalization and fractional distances](#)

C Vondraček-Jirasek, M Fountoukian - Pattern Recognition, 2009 - Elsevier

... work, however, cost reduction is applied successfully in both feature extraction (**normalized** signatures are ... of the distances, including the fractional p-norms, in general, these **distance** measures are ... While the duration between two realizations of a **signature** from the same **user** ...

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[Java-based Internet biometric authentication system](#)

gmail.ac.uk [PDF]

RAJ Bhowmik, PM Mcowan - IEEE Transactions on Pattern Analysis ... 2003 - computer.org

... & ((rm(otherwhere))\u0026lt;overline S((rm(indicates))\u0026lt;or ((rm(vector,normalization)).hfill ... The technique must obtain two sets of **signature** points (one angle set and one distance set ... This is performed with the intention of maximizing within-class **variance** and maximizing between ...

Cited by 12 - Related articles - All 10 versions

[Dynamic signature verification system using stroked based features](#)

T Q, A El Sadik, A Aziz - The 2nd IEEE International ... 2005 - ieeeexplore.ieee.org

... **y** accelerations. Number of zero values in the x and y accelerations. Total path **length**. Mean or **variance** of the ... Figure 4. Stroke based **normalized** pressure versus time of five genuine signatures and two forgeries. The 4th stroke in each genuine **signature** is the significant stroke ...

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[\[PDF\] Offline signature verification and identification using distance statistics](#)

psu.edu [PDF]

MK Kater, S Srinivas, A Xu - ... Journal of Pattern Recognition and Artificial ... 2004 - Citeseer

... This similarity measure is not **normalized** ... Results for database A 4.1.1. Verification results Here the probabilities of the **signature distance** being acceptable as genuine or a forgery are determined. ... The mean and **variance** of **distance** as a function of the writers is shown in Figs. ...

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